

Household energy storage products use high-quality square aluminum shell lithium iron phosphate cells, with intelligent battery management system(BMS), Long cycle life, High safety performance, Beautiful appearance, Free combination, and convenient installation .
The battery pack is equipped with LCD display for visualization of operating data. Compatible with most brands solar inverter and be able to communicate with it. It is widely used in distributed PV systems and home energy storage systems. Provide efficient and clean energy for household, industrial, commercial, agricultural and other electrical equipment.

Technical Parameters

Model	L48100
Specification	48V200Ah
Combination	15S1P
Capacity	9.6KWh
Standard discharge current	50A
Max. discharge current	100A
Working voltage range	40.5- 54VDC
Standard Voltage	48VDC
Max. charging current	50A
Max. charging voltage	54V
Cycle	3000~6000cycles @DOD 80%/25℃/0.5C
Working humidity	65±20%RH
Operating temperature	-10~+50℃
Working altitude	≤2500m
Cooling method	Natural cooling
Installation	Stack installation
Protection level	IP20
Maxof parallel	15PCS
Warranty	5~10 Years
Communication	Default: RS485/RS232/CAN Optional : WiFi/4G/Bluetooth
Certified	CE ROHS FCC UN38.3 MSDS
Product Size	489*925*170mm
Package Size	525*910* 375mm
Net weight	102kg
Gross weight	112kg

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs

LOW VOLTAGE PROTECTION
OVER VOLTAGE PROTECTION
OVER CURRENT PROTECTION
OVER TEMPERATURE PROTECTION
BALANCED PROTECTION
OVER DISCHARGE PROTECTION
SHORT CIRCUIT PROTECTION

Rack/Cabinet
Energy Storage Lithium Battery

4U STANDARD | FREE | MAX 15PCS PARALLEL | COMMUNICATION | OEM/ODM



Cabinet series adopts high-quality lithium iron phosphate batteries, equipped with intelligent BMS battery management system, long cycle life, high safety performance, beautiful appearance, free combination and convenient installation. LCD display, visualization of battery operating data. Compatible with most solar inverters, providing efficient energy for photovoltaic off-grid households, commercial and other electrical equipment.

Model	4850		48100		48200	
Specification	48V50Ah	51.2V50Ah	48V100Ah	51.2V100Ah	48V200Ah	51.2V200Ah
Combination	15S1P	16S1P	15S1P	16S1P	15S1P	16S1P
Capacity	2.4KWh	2.56KWh	4.8KWh	5.12KWh	9.6KWh	10.24KWh
Standard discharge current	50A	50A	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A	100A	100A
Working voltage range	40.5-54VDC	43.2-57.6VDC	40.5-54VDC	43.2-57.6VDC	40.5-54VDC	43.2-57.6VDC
Standard Voltage	48VDC	51.2VDC	48VDC	51.2VDC	48VDC	51.2VDC
Max. charging current	50A	50A	50A	50A	100A	100A
Max. charging voltage	54V	57.6V	54V	57.6V	54V	57.6V
Cycle	3000~6000cycles @DOD 80%/25℃/0.5C					
Working humidity	65±20%RH					
Operating temperature	-10~+50℃					
Working altitude	≤2500m					
Cooling method	Natural cooling					
Installation	Cabinet/Rack Mount					
Protection level	IP20					
Maxof parallel	15PCS					
Warranty	5~10 Years					
Communication	Default: RS485/RS232/CAN Optional: WiFi/4G/Bluetooth					
Certified	CE ROHS FCC UN38.3 MSDS					
Product Size	440*495*88mm		440*495*178mm		440*590*178mm	
Package Size	555*500*130mm		555*500*235mm		480*650*220mm	
Net weight	25kg	37kg	41kg	45kg	101kg	105kg
Gross weight	30kg	42kg	49kg	55kg	111kg	115kg

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs

LOW VOLTAGE PROTECTION | OVER VOLTAGE PROTECTION | OVER CURRENT PROTECTION | OVER TEMPERATURE PROTECTION | BALANCED PROTECTION | OVER DISCHARGE PROTECTION | SHORT CIRCUIT PROTECTION



Wall mount series adopts high-quality lithium iron phosphate batteries, equipped with intelligent BMS battery management system, long cycle life, high safety performance, beautiful appearance, free combination and convenient installation. LCD display, visualization of battery operating data. Compatible with most solar inverters, providing efficient energy for photovoltaic off-grid households, commercial and other electrical equipment.

Model	4850	48100	48200
Specification	48V50Ah	48V100Ah	48V200Ah
Combination	15S1P	15S1P	15S1P
Capacity	2.4KWh	4.8KWh	9.6KWh
Standard discharge current	50A	50A	50A
Max. discharge current	100A	100A	100A
Working voltage range	40.5-54VDC	40.5-54VDC	40.5-54VDC
Standard Voltage	48VDC	48VDC	48VDC
Max. charging current	50A	50A	100A
Max. charging voltage	54V	54V	54V
Cycle	3000~6000cycles @DOD 80%/25℃/0.5C		
Working humidity	65±20%RH		
Operating temperature	-10~+50℃		
Working altitude	≤2500m		
Cooling method	Natural cooling		
Installation	Wall mount		
Protection level	IP20		
Max of parallel	15PCS		
Warranty	5~10 Years		
Communication	Default: RS485/RS232/CAN Optional: WiFi/4G/Bluetooth		
Certified	CE ROHS FCC UN38.3 MSDS		
Product Size	400*200*585mm	400*230*585mm	400*230*610mm
Package Size	500*260*630mm	500*290*630mm	460*250*650mm
Net weight	35kg	42kg	102kg
Gross weight	40kg	50kg	112kg

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs

LOW VOLTAGE PROTECTION
OVER VOLTAGE PROTECTION
OVER CURRENT PROTECTION
OVER TEMPERATURE PROTECTION
BALANCED PROTECTION
OVER DISCHARGE PROTECTION
SHORT CIRCUIT PROTECTION

Stacked
Energy Storage Lithium Battery

FREE | MAX 15PCS PARALLEL | COMMUNICATION | OEM/ODM





Model	48100		48200	
Specification	48V100Ah	51. 2V100Ah	48V200Ah	51. 2V200Ah
Combination	15S1P	16S1P	15S1P	16S1P
Capacity	4.8KWh	5.12KWh	9.6KWh	10.24KWh
Standard discharge current	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A
Working voltage range	40.5- 54VDC	43.2- 57.6VDC	40. 5-54VDC	43.2- 57.6VDC
Standard Voltage	48VDC	51.2VDC	48VDC	51.2VDC
Max. charging current	50A	50A	100A	100A
Max. charging voltage	54V	57.6V	54V	57.6V
Cycle	3000~6000cycles @DOD 80%/25℃/0.5C			
Working humidity	65±20%RH			
Operating temperature	-10~+50℃			
Working altitude	≤2500m			
Cooling method	Natural cooling			
Installation	Stack installation			
Protection level	IP20			
Max of parallel	15PCS			
Warranty	5~10 Years			
Communication	Default: RS485/RS232/CAN Optional: WiFi/4G/Bluetooth			
Certified	CE ROHS FCC UN38.3 MSDS			
Product Size	400*200*460mm		400*240*460mm	
Package Size	460*230* 545mm		460*270* 545mm	
Net weight	50kg	53kg	102kg	106kg
Gross weight	55kg	58kg	112kg	116kg

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs

High voltage
Energy storage lithium battery

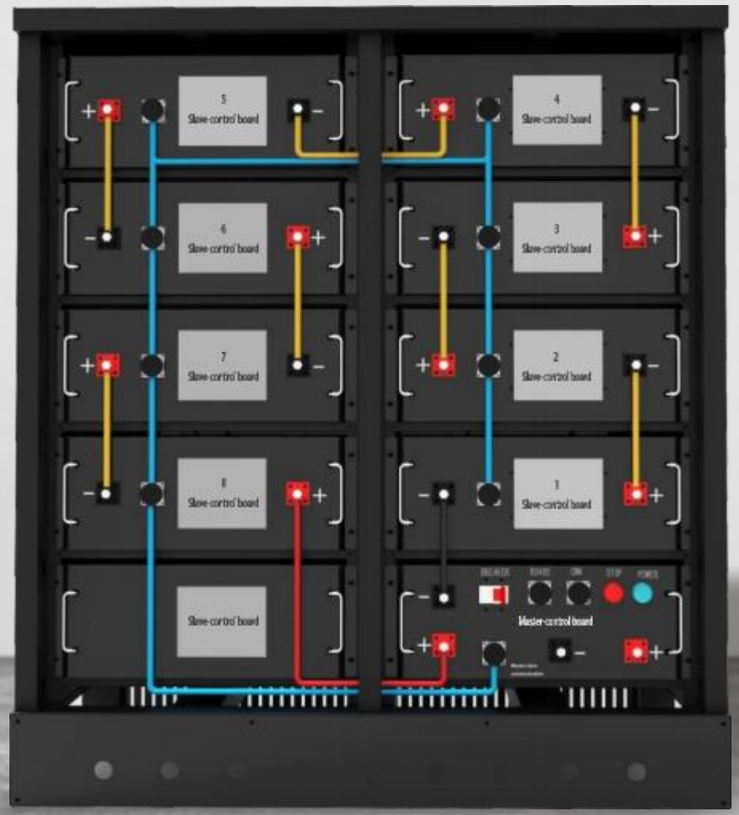
96/144/192/240/384/512/768V

MASTER-SLAVE CONTROL

HIGH VOLTAGE MATCHING

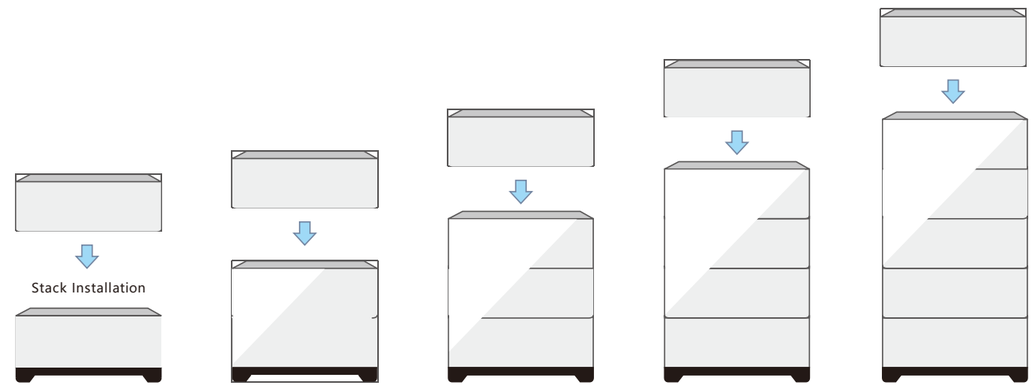
COMMUNICATION

OEM/ODM





High voltage solution supports custom stack form factors



Model	H96	H144	H192	H240	H384	H512	H768
Specification	96V100AH	144V100AH	192V100AH	240V100AH	384V100AH	512V100AH	768V100AH
Capacity	9.6KWh	14.4KWh	19.2KWh	24KWh	38.4KWh	51.2KWh	76.8KWh
Standard discharge current	50A～300A(Customer customize)						
Max discharge current	50A～500A(Customer customize)						
Working voltage range	81-108VDC	121.5-162VDC	162-216VDC	202.5-270VDC	324-432VDC	432-576VDC	648-864VDC
Standard voltage	96V	144V	192V	240V	384V	512V	768V
Max charging current	100A～500A(Customer customize)						
Max charging voltage	81～864V						
Cycle	3000~6000 Cycles @DOD 80%/25℃/0.5C						
Working humidity	65±20%RH						
Operating temperature	-10～+50℃						
Working altitude	≤2500m						
Cooling method	Natural cooling						
Installation	Cabinet/Rack Mount/Stack installation						
Protection level	IP20						
Max of parallel	15PCS						
Warranty	5～10Years						
Communication	Default: RS485/RS232/CAN Optional: WiFi/4G/Bluetooth						
Certified	CE ROHS FCC UN38.3 MSDS						

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs

Replace GEL battery
Energy Storage Lithium Battery

FAST

MAX 15PCS
PARALLEL

OPTIONAL BLUETOOTH

OPTIONAL GPRS



This series adopts high-quality lithium iron phosphate batteries, equipped with intelligent BMS battery management system, long cycle life, high safety performance, beautiful appearance, free combination and convenient installation. LCD display, visualization of battery operating data. Compatible with most solar inverters, providing efficient energy for photovoltaic off-grid households, commercial and other electrical equipment.

Specification	12V5AH	12V8AH	12V10AH	12V20AH	12V30AH	12V50AH
Capacity	75Wh	102Wh	128Wh	256Wh	384Wh	640Wh
Standard discharge current	2.5A	4A	5A	10A	15A	25A
Max. discharge current	5A	8A	10A	20A	30A	50A
Working voltage range	10-14.6V	10-14.6V	10-14.6V	10-14.6V	10-14.6V	10-14.6V
Standard Voltage	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V
Max. charging voltage	14.6V	14.6V	14.6V	14.6V	14.6V	14.6V
Cycle	3000~6000 cycles@DOD 80%/25℃/0.5C					
Working humidity	65±20%RH					
Operating temperature	-10~+50℃					
Working altitude	≤2500m					
Cooling method	Natural cooling					
Installation	IP65					
Product Size	152*65*98mm	152*65*98mm	152*65*98mm	265*70*90mm	265*70*90mm	255*165*215mm
Net weight	0.9Kg	1.2Kg	1.5Kg	3.2Kg	4.5Kg	9Kg

Specification	12V100AH	12V200AH	12V300AH	24V50AH	24V100AH	24V200AH
Capacity	1.28KWh	2.56KWh	3.84KWh	1.28KWh	2.56KWh	5.12KWh
Standard discharge current	50A	50A	50A	25A	50A	50A
Max. discharge current	100A	100A	100A	50A	100A	100A
Working voltage range	10-14.6V	10-14.6V	10-14.6V	20-29.2V	20-29.2V	20-29.2V
Standard Voltage	12.8V	12.8V	12.8V	25.6V	25.6V	25.6V
Max. charging voltage	14.6V	14.6V	14.6V	29.2V	29.2V	29.2V
Cycle	3000~6000 cycles@DOD 80%/25℃/0.5C					
Working humidity	65±20%RH					
Operating temperature	-10~+50℃					
Working altitude	≤2500m					
Cooling method	Natural cooling					
Installation	IP65					
Product Size	255*165*215mm	480*165*240mm	515*235*225mm	305*165*215mm	480*165*240mm	635*245*220mm
Net weight	16Kg	28Kg	45Kg	20Kg	30Kg	40Kg

L-ESS

Vertical
Lithium Battery Energy Storage System



The ESS series product (Energy Storage System) is a high-performance off-grid energy storage system independently developed by us. It uses high-quality lithium iron phosphate batteries and is equipped with an intelligent BMS battery management system. It has long cycle life, high safety performance, and good sealing; High-frequency off-grid photovoltaic inverter, built-in MPPT controller, can provide efficient and reliable energy solutions for photovoltaic off-grid power generation systems, energy storage systems, household photovoltaic storage systems, and industrial and commercial energy storage systems.

The system is equipped with a self-developed APP, supports IOS/Android mobile phones, remotely controls the charging and discharging of the battery pack, monitors the system operating data in realtime, and quickly enters the troubleshooting work when the system fails, so as to restore the effective power supply more efficiently.

Model	L-ESS-10	L-ESS-15	L-ESS-20
Capacity	10.24KWh/5KW	15.36KWh/5KW	20.48KWh/5KW
Standard discharge current	50A	50A	50A
Max. discharge current	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V
Rated PV input voltage	360VDC		
MPPT tracking voltage range	120V-450V		
Max input voltage (VOC) at lowest temperature	500V		
Max input power	6000W		
Number of MPPT tracking paths	1Path		
DC input voltage range	42-60VDC		
Rated mains power input voltage	220VAC/230VAC/240VAC		
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)		
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)		
Inverter output efficiency	94%(MAX)		
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)		
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)		
Inverter output waveform	Pure sine wave		
Grid output efficiency	>99%		
Max mains charging current	60A		
Max PV charging current	100A		
Max charging current (Grid+PV)	100A		
Optional mode	Grid priority/PV priority/Battery priority		
Warranty	5~10Years		
Communication	Optional: RS485/RS232/CAN WiFi/4G/Bluetooth		

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs

ESS

Rack/Cabinet
Lithium Battery Energy Storage System

Li-FePO4 | 3-8KW Out put | APP Control | Customized High/low voltage | Customized capacity



The ESS system is a high-performance off-grid energy storage system independently developed by Dingke Energy. It uses high-quality lithium iron phosphate cells and is equipped with an intelligent BMS battery management system. It has long cycle life, high safety performance, good sealing, and is equipped with high-frequency off-grid the inverter, built-in MPPT controller, provides efficient and reliable energy solutions for PV off-grid power generation systems, homes PV storage systems, and industrial and commercial energy storage systems .

The system is equipped with a self-developed APP, supports IOS/Android mobile phones, remotely controls the charging and discharging of the ESS system, and real-time system operation data. When the system fails, it can be quickly eliminated and the effective power supply can be restored efficiently.

Model	C-ESS-5	C-ESS-10	C-ESS-15	C-ESS-20
Capacity	5.12KWh/5KW	10.24KWh/5KW	15.36KWh/5KW	20.48KWh/5KW
Standard discharge current	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V	57.6V
Rated PV input voltage	360VDC			
MPPT tracking voltage range	120V-450V			
Max input voltage (VOC) at lowest temperature	500V			
Max input power	6000W			
Number of MPPT tracking paths	1Path			
DC input voltage range	42-60VDC			
Rated mains power input voltage	220VAC/230VAC/240VAC			
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)			
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)			
Inverter output efficiency	94%(MAX)			
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)			
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)			
Inverter output waveform	Pure sine wave			
Grid output efficiency	>99%			
Max mains charging current	60A			
Max PV charging current	100A			
Max charging current (Grid+PV)	100A			
Optional mode	Grid priority/PV priority/Battery priority			
Warranty	5~10Years			
Communication	Optional : RS485/RS232/CAN WiFi/4G/Bluetooth			

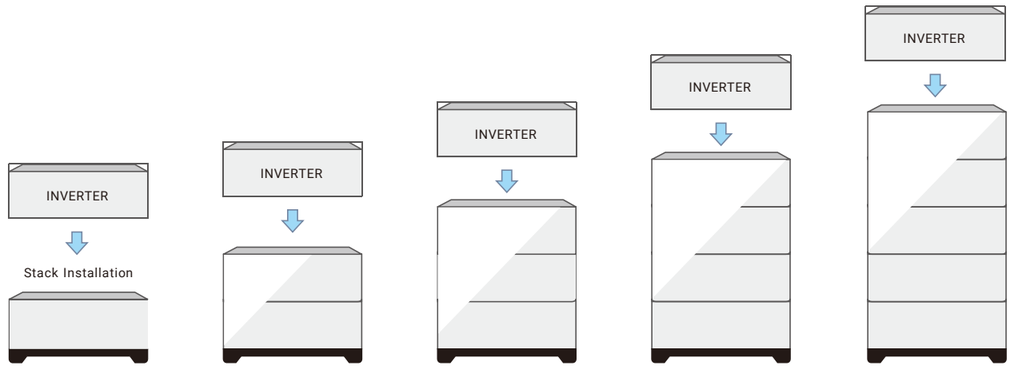
*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs

ESS

Stack
Lithium Battery Energy Storage System

Li-FePO4 | 3-8KW Out put | APP Control | Customized High/low voltage | Customized capacity





Model	S-ESS-5	S-ESS-10	S-ESS-15	S-ESS-20
Capacity	5.12KWh/5KW	10.24KWh/5KW	15.36KWh/5KW	20.48KWh/5KW
Standard discharge current	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V	57.6V
Rated PV input voltage	360VDC			
MPPT tracking voltage range	120V-450V			
Max input voltage (VOC) at lowest temperature	500V			
Max input power	6000W			
Number of MPPT tracking paths	1Path			
DC input voltage range	42-60VDC			
Rated mains power input voltage	220VAC/230VAC/240VAC			
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)			
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)			
Inverter output efficiency	94%(MAX)			
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)			
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)			
Inverter output waveform	Pure sine wave			
Grid output efficiency	>99%			
Max mains charging current	60A			
Max PV charging current	100A			
Max charging current (Grid+PV)	100A			
Optional mode	Grid priority/PV priority/Battery priority			
Warranty	5~10Years			
Communication	Optional: RS485/RS232/CAN WiFi/4G/Bluetooth			

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs